

Received 30 SEP 2003

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
9 October 2003 (09.10.2003)

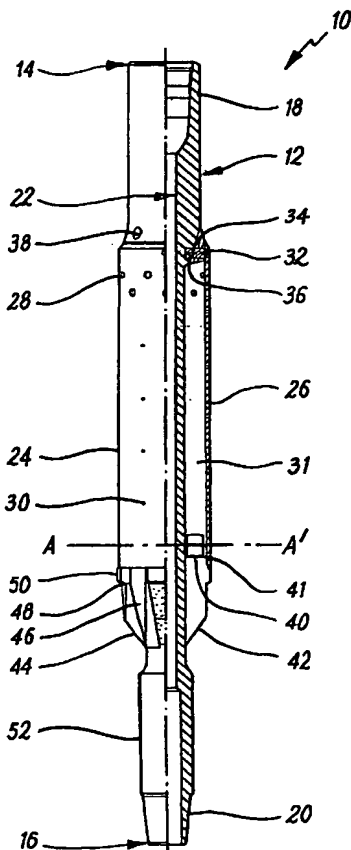
PCT

(10) International Publication Number  
**WO 03/083253 A1**

- (51) International Patent Classification<sup>7</sup>: **E21B 27/00**, 37/02, 29/00
- (21) International Application Number: PCT/GB03/01426
- (22) International Filing Date: 1 April 2003 (01.04.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0207563.8 2 April 2002 (02.04.2002) GB
- (71) Applicant (for all designated States except US): **SPECIALISED PETROLEUM SERVICES GROUP LIMITED** [GB/GB]; Amhall Business Park, Westhill, Aberdeen AB32 6TQ (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **TELFER, George** [GB/GB]; 19 Grosvenor Place, Aberdeen AB25 2RE (GB).
- (74) Agent: **KENNEDYS PATENT AGENCY LIMITED**; Queens House, Floor 5, 29 St. Vincent Place, Glasgow G1 2DT (GB).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: JUNK REMOVAL TOOL



(57) Abstract: A junk removal tool (10) for use in a well bore. The tool includes a multi-faceted face (42) of tungsten carbide to break up large pieces of junk. The junk is then captured in the tool via large area inlet ports (40) and collected in a trap (31). In one embodiment, valves (41) are placed at the inlet ports to prevent the out-flow of captured junk. A further embodiment includes a throat portion (52) to jet junk laden fluid into the tool.



WO 03/083253 A1



**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*